Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

(previously presented): A communication method. handover which is conducted when, in communication system where a first access router pertaining to a first subnet and a second access router pertaining to a second subnet different from said first subnet are connected through an IP network, a mobile terminal connected through a radio communication to said first subnet makes connection switching from said first subnet to said second subnet, comprising:

a step in which said mobile terminal configures address information adaptable to said second subnet in a state connected to said first subnet;

a step in which said mobile terminal transmits an FBU message including said address information to said first access router;

a step in which said first access router transmits, to one of said mobile terminal and said second access router or both said mobile terminal and said second access router, an FBAck message for notifying a result of processing on said FBU message;

a step in which said second access router stores information on said FBAck message received from said first access router;

a step in which said first access router starts to forward a packet, addressed to said mobile terminal, to said second access, router according to the processing on said FBU message;

a step in which said second access router buffers said packet addressed to said mobile terminal and received from said first access router;

a step in which said mobile terminal carries out L2 handover for making connection switching from said first subnet to said second subnet without receiving said FBAck message from said first access router and transmits an FNA message including said FBU message to said second access router;

a step in which said second access router confirms the validity of said address information included in said FNA message;

a step in which said second access router makes a collation between said FBU message included in said FNA message and information on said FBAck message received from said first access router and stored; and

a step in which, when the information on said FBAck message corresponding to said FBU message included in said FNA message and indicative of a result of the processing on

said FBU message being normal exists, said second access router makes a selection so that said FBU message included in said FNA message is not transferred.

Claim 2 (original): The communication handover method according to claim 1, comprising:

a step in which said first access router transmits an HI message including said address information to said second access router after receiving said FBU message from said mobile terminal; and

a step in which said second access router confirms the validity of said address information included in said HI message and then transmits, to said first access router, an HAck message for making a notification to the effect that said address information is valid.

(previously presented): A communication handover method, which is conducted when, communication system where a first access router pertaining to a first subnet and a second access router pertaining to a second subnet different from said first subnet are network, a mobile terminal connected through an ΙP connected through a radio communication to said first subnet makes connection switching from said first subnet to said second subnet, comprising:

a step in which said mobile terminal configures address information adaptable to said second subnet in a state connected to said first subnet;

a step in which said mobile terminal transmits an FBU message including said address information to said first access router;

a step in which said first access router receives said FBU message from said mobile terminal and then transmits an HI message including said address information to said second access router;

a step in which said second access router confirms the validity of said address information included in said HI message and then transmits, to said first access router, an HAck message for making a notification to the effect that said address information is valid;

a step in which said first access router transmits, to one of said mobile terminal and said second access router or both said mobile terminal and said second access router, an FBAck message for notifying a result of processing on said FBU message;

a step in which said second access router stores information on said FBAck message, received from said first access router, which notifies the processing result on said FBU message;

a step in which said first access router starts to forward a packet, addressed to said mobile terminal, to

said second access router according to the processing on said FBU message;

a step in which said second access router buffers said packet addressed to said mobile terminal and received from said first access router;

a step in which said mobile terminal carries out L2 handover for making connection switching from said first subnet to said second subnet without receiving said FBAck message from said first access router and transmits an FNA message including said FBU message to said second access router:

a step in which said second access router makes a collation between said FBU message included in said FNA message and the information on said FBAck message received from said first access router and stored; and

a step in which, when the information on said FBAck message corresponding to said FBU message included in said FNA message and indicative of the processing result on said FBU message being normal exists, said second access router makes a selection so that said FBU message included in said FNA message is not transferred.

Claim 4 (previously presented): A communication handover method, which is conducted when, in a communication system where a first access router pertaining to a first subnet and a second access router pertaining to

a second subnet different from said first subnet are connected through an IP network, a mobile terminal connected through a radio communication to said first subnet makes connection switching from said first subnet to said second subnet, comprising:

a step in which said mobile terminal configures address information adaptable to said second subnet in a state connected to said first subnet;

a step in which said mobile terminal transmits an FBU message including said address information to said first access router;

a step in which said first access router receives said FBU message from said mobile terminal and then transmits an HI message including said address information to said second access router;

a step in which said second access router confirms the validity of said address information included in said HI message and then transmits, to said first access router, an HAck message for making a notification to the effect that said address information is valid;

a step in which said first access router transmits, to one of said mobile terminal and said second access router or both said mobile terminal and said second access router, an FBAck message for notifying a result of processing on said FBU message;

a step in which said second access router stores information on said FBAck message received from said first access router together with information indicative of whether or not said address information is valid;

a step in which said first access router starts to forward a packet, addressed to said mobile terminal, to said second access router according to the processing on said FBU message;

a step in which said second access router buffers said packet addressed to said mobile terminal and received from said first access router;

a step in which said mobile terminal carries out L2 handover for making connection switching from said first subnet to said second subnet without receiving said FBAck message from said first access router and transmits an FNA message including said FBU message to said second access router;

a step in which said second access router makes a collation between said FBU message included in said FNA message and the information on said FBAck message received from said first access router and stored; and

a step in which, when the information on said FBAck message corresponding to said FBU message included in said FNA message and indicative of the processing result on said FBU message being normal exists and the information indicative of said address information being valid is

stored in conjunction with the information on said FBAck message, said second access router makes a selection so that said FBU message included in said FNA message is not transferred.

Claim 5 (currently amended): The communication handover method according to any one of claims 1 to 4 claim 1, wherein information on a pair of transmitting side address and transmitted side address, specified at a header of said FBAck message, is used as the information on said FBAck message.

Claim 6 (currently amended): The communication handover method according to any one of claims 1 to 4 claim 1, comprising a step in which said second access router deletes the information on said FBAck message collated with said FBU message included in said FNA message.

Claim 7 (previously presented): A communication system in which a first access router pertaining to a first subnet and a second access router pertaining to a second subnet different from said first subnet are connected through an IP network and a mobile terminal makes a connection with said first subnet or said second subnet through a radio communication,

wherein said mobile terminal configures address information adaptable to said second subnet in a state connected to said first subnet,

said mobile terminal transmits an FBU message including said address information to said first access router,

said first access router transmits, to one of said mobile terminal and said second access router or both said mobile terminal and said second access router, an FBAck message for notifying a result of processing on said FBU message,

said second access router stores information on said FBAck message received from said first access router,

said first access router starts to forward a packet, addressed to said mobile terminal, to said second access router according to the processing on said FBU message,

said second access router buffers said packet addressed to said mobile terminal and received from said first access router,

said mobile terminal carries out L2 handover for making connection switching from said first subnet to said second subnet without receiving said FBAck message from said first access router and transmits an FNA message including said FBU message to said second access router,

said second access router confirms the validity of said address information included in said FNA message,

said second access router makes a collation between said FBU message included in said FNA message and the information on said FBAck message received from said first access router and stored, and

when the information on said FBAck message corresponding to said FBU message included in said FNA message and indicative of the processing result on said FBU message being normal exists, said second access router makes a selection so that said FBU message included in said FNA message is not transferred.

Claim 8 (original): The communication system according to claim 7, wherein

said first access router transmits an HI message including said address information to said second access router after receiving said FBU message from said mobile terminal, and

said second access router confirms the validity of said address information included in said HI message and then transmits, to said first access router, an HAck message for making a notification to the effect that said address information is valid.

Claim 9 (previously presented): A communication system in which a first access router pertaining to a first subnet and a second access router pertaining to a second

subnet different from said first subnet are connected through an IP network and a mobile terminal makes a connection with said first subnet or said second subnet through a radio communication,

wherein said mobile terminal configures address information adaptable to said second subnet in a state connected to said first subnet,

said mobile terminal transmits an FBU message including said address information to said first access router,

said first access router receives said FBU message from said mobile terminal and then transmits an HI message including said address information to said second access router,

said second access router confirms the validity of said address information included in said HI message and then transmits, to said first access router, an HAck message for making a notification to the effect that said address information is valid,

said first access router transmits, to one of said mobile terminal and said second access router or both said mobile terminal and said second access router, an FBAck message for notifying a result of processing on said FBU message,

said second access router stores information on said FBAck message, received from said first access router, which notifies the processing result on said FBU message,

said first access router starts to forward a packet, addressed to said mobile terminal, to said second access router according to the processing on said FBU message,

said second access router buffers said packet addressed to said mobile terminal and received from said first access router,

said mobile terminal carries out L2 handover for making connection switching from said first subnet to said second subnet without receiving said FBAck message from said first access router and transmits an FNA message including said FBU message to said second access router,

said second access router makes a collation between said FBU message included in said FNA message and the information on said FBAck message received from said first access router and stored, and

when the information on said FBAck message corresponding to said FBU message included in said FNA message and indicative of the processing result on said FBU message being normal exists, said second access router makes a selection so that said FBU message included in said FNA message is not transferred.

Claim 10 (previously presented): A communication system in which a first access router pertaining to a first subnet and a second access router pertaining to a second subnet different from said first subnet are connected through an IP network and a mobile terminal makes a connection with said first subnet or said second subnet through a radio communication,

wherein said mobile terminal configures address information adaptable to said second subnet in a state connected to said first subnet,

said mobile terminal transmits an FBU message including said address information to said first access router,

said first access router receives said FBU message from said mobile terminal and then transmits an HI message including said address information to said second access router,

said second access router confirms the validity of said address information included in said HI message and then transmits, to said first access router, an HAck message for making a notification to the effect that said address information is valid,

said first access router transmits, to one of said mobile terminal and said second access router or both said mobile terminal and said second access router, an FBAck

message for notifying a result of processing on said FBU message,

said second access router stores information on said FBAck message received from said first access router together with information indicative of whether or not said address information is valid,

said first access router starts to forward a packet, addressed to said mobile terminal, to said second access router according to the processing on said FBU message,

said second access router buffers said packet addressed to said mobile terminal and received from said first access router,

said mobile terminal carries out L2 handover for making connection switching from said first subnet to said second subnet without receiving said FBAck message from said first access router and transmits an FNA message including said FBU message to said second access router,

said second access router makes a collation between said FBU message included in said FNA message and the information on said FBAck message received from the said access router and stored, and

when the information on said FBAck message corresponding to said FBU message included in said FNA message and indicative of the processing result on said FBU message exists and the information indicative of said address information being valid is stored in conjunction

with the information on said FBAck message, said second access router makes a selection so that said FBU message included in said FNA message is not transferred.

Claim 11 (currently amended): The communication system according to any one of claims 7 to 10 claim 7, wherein information on a pair of transmitting side address and transmitted side address, specified at a header of said FBAck message, is used as the information on said FBAck message.

Claim 12 (currently amended): The communication system according to any one of claims 7 to 10 claim 7, wherein said second access router deletes the information on said FBAck message collated with said FBU message included in said FNA message.

Claim 13 (previously presented): A communication message processing method, which is conducted in a second access router when, in a communication system where a first access router pertaining to a first subnet and said second access router pertaining to a second subnet different from said first subnet are connected through an IP network, a mobile terminal connected through a radio communication to said first subnet makes connection switching from said first subnet to said second subnet, comprising:

a step of receiving, from said first access router, an FBAck message which is a response message to an FBU message including address information configured by said mobile terminal and adaptable to said second subnet;

a step of storing information on said FBAck message received from said first access router;

a step of buffering a packet addressed to said mobile terminal and sent by packet forwarding to said mobile terminal which is started in accordance with processing on said FBU message;

a step of receiving an FNA message including said FBU message from said mobile terminal which carries out L2 handover for connection switching from said first subnet to said second subnet;

a step of confirming the validity of said address information included in said FNA message;

a step of making a collation between said FBU message included in said FNA message and the information on said FBAck message received from said first access router and stored; and

a step of, when the information on said FBAck message corresponding to said FBU message included in said FNA message and indicative of a result of the processing on said FBU message being normal exists, making a selection so that said FBU message included in said FNA message is not transferred.

Claim 14 (original): The communication message processing method according to claim 13, comprising:

a step of receiving an HI message including said address information from said first access router; and

a step of confirming the validity of said address information included in said HI message and then transmitting, to said first access router, an HAck for making a notification to the effect that said address information is valid.

Claim 15 (previously presented): A communication message processing method, which is conducted in a second access router when, in a communication system where a first access router pertaining to a first subnet and said second access router pertaining to a second subnet different from said first subnet are connected through an IP network, a mobile terminal connected through a radio communication to said first subnet makes connection switching from said first subnet to said second subnet, comprising:

a step of receiving, from said first access router, an HI message including address information configured by said mobile terminal and adaptable to said second subnet;

a step of confirming the validity of said address information included in said HI message and then transmitting, to said first access router, an HAck message

for making a notification to the effect that said address information is valid;

a step of receiving, from said first access router, an FBAck message which is a response to said FBU message;

a step of storing information on said FBAck message, received from said first access router, which notifies a result of processing on said FBU message;

a step of buffering a packet addressed to said mobile terminal and sent by forwarding said packet to said mobile terminal which is started in accordance with the processing on said FBU message;

a step of receiving an FNA message including said FBU message from said mobile terminal which carries out L2 handover for making connection switching from said first subnet to said second subnet;

a step of making a collation between said FBU message included in said FNA message and information on said FBAck message received from said first access router and stored; and

a step of, when the information on said FBAck message corresponding to said FBU message included in said FNA message and indicative of the processing result on said FBU message being normal exists, making a selection so that said FBU message included in said FNA message is not transferred.

Claim 16 (previously presented): A communication message processing method, which is conducted in a second access router when, in a communication system where a first access router pertaining to a first subnet and said second access router pertaining to a second subnet different from said first subnet are connected through an IP network, a mobile terminal connected through a radio communication to said first subnet makes connection switching from said first subnet to said second subnet, comprising:

a step of receiving, from said first access router, an HI message including address information configured by said mobile terminal and adaptable to said second subnet;

a step of confirming the validity of said address information included in said HI message and then transmitting, to said first access router, an HAck message for making a notification to the effect that said address information is valid;

a step of receiving, from said first access router, an FBAck message which is a response to said FBU message;

a step of storing information on said FBAck message received from said first access router together with information indicative of whether or not said address information is valid;

a step in which said first access router starts forwarding a packet, addressed to said mobile terminal, to

said second access router according to processing on said FBU message;

a step in which said second access router buffers said packet addressed to said mobile terminal and received from said first access router;

a step of receiving an FNA message including said FBU message from said mobile terminal which carries out L2 handover for making connection switching from said first subnet to said second subnet;

a step of making a collation between said FBU message included in said FNA message and information on said FBAck message received from said first access router and stored; and

a step of, when the information on said FBAck message corresponding to said FBU message included in said FNA message and indicative of a result of the processing on said FBU message being normal exists and information indicative of said address information being valid is stored in conjunction with the information on said FBAck message, making a selection so that said FBU message included in said FNA message is not transferred.

Claim 17 (currently amended): The communication message processing method according to any one of claims 13 to 16 claim 13, wherein information on a pair of transmitting side address and transmitted side address,

specified at a header of said FBAck message, is used as the information on said FBAck message.

Claim 18 (currently amended): The communication message processing method according to any one of claims 13 to 16 claim 13, comprising a step of deleting the information on said FBAck message collated with said FBU message included in said FNA message.

Claim 19 (currently amended): A communication message processing program for implementing said communication message processing method according to any one of claims 13 to 16 claim 13 through the use of a computer.

Claim 20 (new): The communication handover method according to claim 3, wherein information on a pair of transmitting side address and transmitted side address, specified at a header of said FBAck message, is used as the information on said FBAck message.

Claim 21 (new): The communication handover method according to claim 3, comprising a step in which said second access router deletes the information on said FBAck message collated with said FBU message included in said FNA message.

Claim 22 (new): The communication handover method according to claim 4, wherein information on a pair of transmitting side address and transmitted side address, specified at a header of said FBAck message, is used as the information on said FBAck message.

Claim 23 (new): The communication handover method according to claim 4, comprising a step in which said second access router deletes the information on said FBAck message collated with said FBU message included in said FNA message.

Claim 24 (new): The communication system according to claim 9, wherein information on a pair of transmitting side address and transmitted side address, specified at a header of said FBAck message, is used as the information on said FBAck message.

Claim 25 (new): The communication system according to claim 9, wherein said second access router deletes the information on said FBAck message collated with said FBU message included in said FNA message.

Claim 26 (new): The communication system according to claim 10, wherein information on a pair of transmitting side address and transmitted side address, specified at a

header of said FBAck message, is used as the information on said FBAck message.

Claim 27 (new): The communication system according to claim 10, wherein said second access router deletes the information on said FBAck message collated with said FBU message included in said FNA message.

Claim 28 (new): The communication message processing method according to claim 15, wherein information on a pair of transmitting side address and transmitted side address, specified at a header of said FBAck message, is used as the information on said FBAck message.

Claim 29 (new): The communication message processing method according to claim 15, comprising a step of deleting the information on said FBAck message collated with said FBU message included in said FNA message.

Claim 30 (new): A communication message processing program for implementing said communication message processing method according to claim 15 through the use of a computer.

Claim 31 (new): The communication message processing method according to claim 16, wherein information on a pair

of transmitting side address and transmitted side address, specified at a header of said FBAck message, is used as the information on said FBAck message.

Claim 32 (new): The communication message processing method according to claim 16, comprising a step of deleting the information on said FBAck message collated with said FBU message included in said FNA message.

Claim 33 (new): A communication message processing program for implementing said communication message processing method according to claim 16 through the use of a computer.